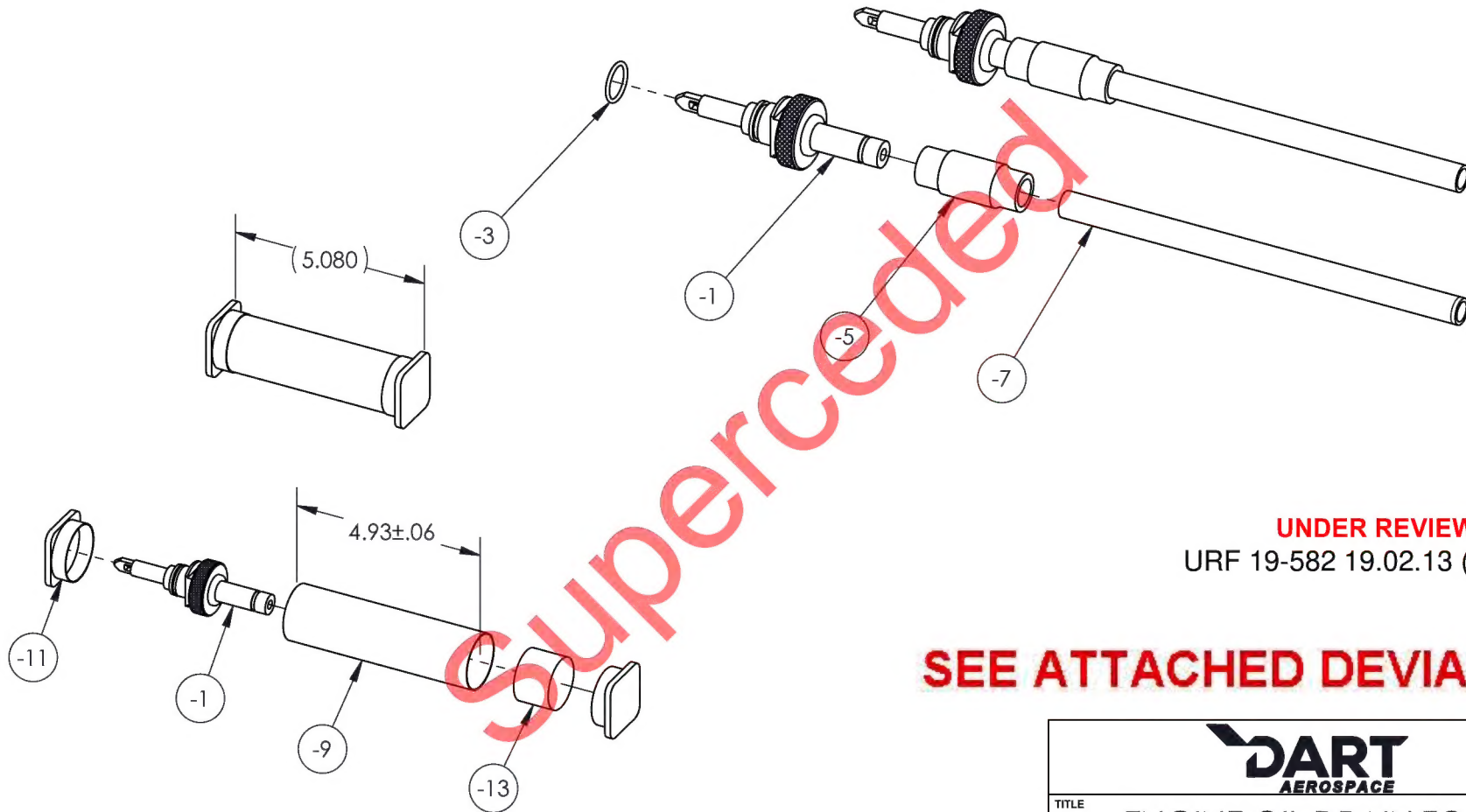


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REVISIONS					
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED
1		MODIFIED -1 TO USE WITH COUPLING. ADDED COUPLING & SPONGES. REMOVED HOSE CLAMP & SHRINK WRAP. ADDED -9, -11, -13, EXPLODED VIEW AND UPDATED BOM.	10/9/2012	RJC	SE
1A		-9 CH'D DIM WAS 5.56 IS 4.93. -13 CH'D MATERIAL TO NEW PIG CORP. #PAD210	2/6/2014	DPD	RW
1B	14-0162	CH'D TITLEBLOCK WAS RED BARN IS DART. -1 ADDED MISSING DIM Ø.75	9/24/2014	DJN	VT
4	15-0331	-1 CH'D DIM WAS 4.18 IS 4.19. DELETED DIM Ø.010. ADDED DIMS SR.09, .35. CH'D TOLERANCE ON NON-CRITICAL DIMENSIONS.	10/12/2015	DPD	JAG



UNDER REVIEW
URF 19-582 19.02.13 (VM)

SEE ATTACHED DEVIATION

ASSY QTY	ASSY QTY	B/O	Part #	UNIT QTY	Description	Material	B/O INFORMATION OR SPECIFICATIONS	PG.
			-1	1	BODY	6061		2
		B/O	-3	1	O-RING	VITON	Ø.070 WIDTH X Ø5/8 OD (MCMaster-CARR #9464K22)	1
		B/O	-5	1	COUPLING	NICKEL-PLATED BRASS	Ø1/2 (MCMaster-CARR #51495K116)	1
		B/O	-7	1	HOSE	VINYL	Ø1/2 O.D. x Ø3/8 I.D. x 6ft (KURI-TECH #K010-0608)	1
		B/O	-9	1	TUBE	POLYETHYLENE	Ø1.36 I.D. (MCMaster-CARR #2044T48)	1
		B/O	-11	2	CAP	VINYL	Ø1.36 (MCMaster-CARR #2044T68)	1
		B/O	-13	1	FOAM	POLYESTER/POLYURETHANE	Ø1.31 X 1 (NEW PIG CORP. #PAD210)	1

DART AEROSPACE		ENGINE OIL DRAIN TOOL	
TITLE		ENGINE OIL DRAIN TOOL	
DWG NO.		RBT18713	
MAT'L		DRAWN BY: COLE	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		APPROVED <i>D Weil</i>	
.XXX ± .005		HEAT TREAT	
.XX ± .01		FINISH	
.X ± .1		SPEC	
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R		USED ON MODEL	
2. DIMENSIONAL LIMITS APPLY AFTER PLATING		RR 250 SERIES, C40B	
SCALE 1:3		DATE 3/1/2005	
		SHEET 1 OF 2	

SEE ATTACHED DEVIATION

UNDER REVIEW

URF 19-582 19.02.13 (VM)



ENGINE OIL DRAIN PLUG

DWG NO. RBT18713-1

RE 4

MAT'L	6061
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DRAWN BY: COLE

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES

APPROVED	<i>D. Weir</i>
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DIMENSIONS ARE IN INCHES

.XXX	± .005	FRACTIONS ± 1/8
.XX	± .01	ANGLES ± .5°
.X	± .1	

HEAT TREAT	
FINISH	RED ANODIZE

1. BREAK ALL SHARP EDGES .015 x 45°
OR .015R
2. DIMENSIONAL LIMITS APPLY AFTER
PLATING

5.	SPEC	MIL-A-8625, TYPE II, CLASS II
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	USED ON MODEL
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2. DIMENSIONAL LIMITS APPLY AFTER PLATING	RR 250 SERIES C40B
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SCALE	1:1
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DATE	3/1/2005
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SHEET 2 OF 2

Entered: _____ Date: _____



WORK ORDER NON-CONFORMANCE / ROUTE UPDATE

NCR No. _____

Route update only ☐

Job: _____ Part No. <u>RBT18713 Rev. 4</u>	DISPOSITION Rework <input type="checkbox"/> Scrap <input type="checkbox"/> Use-as-is <input type="checkbox"/>	DEPARTMENT/PROCESS <div style="display: flex; justify-content: space-between;"> <div> Skid-tube <input type="checkbox"/> Machining <input type="checkbox"/> Large Fab <input type="checkbox"/> </div> <div> Cross tube <input type="checkbox"/> Small Fab <input type="checkbox"/> Finishing <input type="checkbox"/> </div> <div> Eng. (Non-AW) <input type="checkbox"/> Prod. Eng. Coord. <input type="checkbox"/> Rec/Store/Packaging <input type="checkbox"/> </div> <div> Engineering <input type="checkbox"/> Water Jet <input type="checkbox"/> Supplier Quality <input type="checkbox"/> </div> </div>			
Date : _____	Sequence #: _____	QTY Affected : _____		MRB (QSI042) Oct 30, 2018	
Description Work Order Deviation		Disposition		Completed By	
Kuri-Tech Hose (K010-0608) easily pulls out of Coupling (McMaster Carr 51495K116)		Install a 1.0" long, 0.38" OD, 0.25" ID piece of Stainless Steel into one end of the Kuri-Tech Hose until flush. Attach the modified end of the Kuri-Tech Hose to the Coupling before placing tool into packaging (if applicable). This deviation is acceptable. The fit, form and function of the part will be as originally intended.		Lead hand / Supervisor	
				QC / QA Coordinator	
Root Cause		FAULT CATEGORY			
<div style="display: flex; flex-direction: column;"> <div>Operator <input type="checkbox"/></div> <div>Manufacturing Process <input type="checkbox"/></div> <div>Equip/Tooling <input type="checkbox"/></div> <div>Handling/Presservation <input type="checkbox"/></div> <div>Material <input type="checkbox"/></div> <div>Product Improvement <input checked="" type="checkbox"/></div> <div>Process Improvement <input type="checkbox"/></div> <div>Human Factors <input type="checkbox"/></div> </div>		<div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%;"> <input type="checkbox"/> Pressure/Forced <input type="checkbox"/> Bending <input type="checkbox"/> Crushing <input type="checkbox"/> Cracks <input type="checkbox"/> Crimp/Kink/Ripple/Wave/Twist <input type="checkbox"/> Marks/Chatter <input type="checkbox"/> Mislabeled </div> <div style="width: 50%;"> <input type="checkbox"/> Contamination <input type="checkbox"/> Misaligned/off center <input type="checkbox"/> BOM/Route <input type="checkbox"/> Broken/Damage/Defect <input type="checkbox"/> Incomplete/Unclear Instructions <input type="checkbox"/> Drill Holes <input type="checkbox"/> Fit/Function </div> <div style="width: 50%;"> <input type="checkbox"/> Power Loss/Surge <input type="checkbox"/> Folio/Program <input type="checkbox"/> Grain Direction <input type="checkbox"/> Weld <input type="checkbox"/> Wrong Stock Pulled <input type="checkbox"/> Out of Sequence <input type="checkbox"/> Off-set/Set-up </div> <div style="width: 50%;"> <input type="checkbox"/> Positioned Wrong <input type="checkbox"/> Outside Tolerance <input type="checkbox"/> Drawing <input type="checkbox"/> Finish <input type="checkbox"/> Part Lost/Missing <input type="checkbox"/> Misread </div> </div>			
Other/Details:					

URF 19-582 19.02.13 (VM)

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